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## ELEMENTS OF 83 AQUARI

$$P = 23.82 \pm 1.37 \text{ years}$$

$$T = 1917.68 \pm 0.20 \text{ years}$$

$$e = 0.404 \pm 0.016$$

$$a = 0^{\circ}.245 \pm 0^{\circ}.005$$

$$i = \pm 56^{\circ}.35 \pm 4^{\circ}.1$$

$$\omega = 261.3 \pm 5.4$$

$$\Omega = 21.6 \pm 2.4$$

Angles increasing.

ROBERT G. AITKEN.

September, 1918.

## RETURN OF ECLIPSE INSTRUMENTS FROM RUSSIA

The Lick Observatory eclipse apparatus and supplies, stored in the Russian National Observatory at Poulkovo during three years following the total solar eclipse of August 21, 1914, were started on their long journey home on August 15, 1917, and arrived at Mt. Hamilton on August 21, 1918. Upon unpacking them we were relieved to find every item present and in good order, save that the chronometer had suffered minor damage from rough handling. The packing boxes were well on the way to the state of kindling, but fortunately their strong bindings of strap iron and wire held them together.

The return shipment included also the Amherst College eclipse equipment taken to Russia by Professor Todd.

The shipment was delayed at least four months at Vladivostock, and nearly three months at Kobe, for reasons beyond our control.

The special eclipse equipment was sadly missed by the Crocker Expedition at Goldendale, Washington, on June 8, 1918.

W. W. C.